

SENIOR TRAFFIC ENGINEERING TECHNICIAN

DISTINGUISHING FEATURES

The fundamental reason the Senior Traffic Engineering Technician position exists is to assist with ensuring our transportation facilities are operating safely and efficiently. This classification does not supervise; work is performed under the general guidance of the Traffic Engineering Technician Supervisor. The Senior Traffic Engineering Technician is distinguished from the Traffic Engineering Technician by the nature of the work being more complex, more technical and the level of experience is greater.

ESSENTIAL FUNCTIONS

Receives, investigates and prepares reports on traffic operation issues in the field and responds in a timely manner to citizen concerns and service requests regarding safety issues, traffic control problems and roadway operational improvements. Defines problem areas and makes decisions to effect change and is responsible for those decisions. Prepares and processes work orders for signing, striping, and roadway geometric improvements.

Collects traffic data from the field, including manual and machine vehicle counts, radar speed measurements, classification studies, bicycle and pedestrian counts, and parking utilization and turnover studies. Assists in the preparation of the biannual report of traffic volume and traffic crash statistics.

Conducts annual reviews of traffic control devices and evaluates intersection sight distance throughout an assigned geographical area. Works as part of a team with the Traffic Engineering Analysts; providing information and data; making recommendations; and conveying observations to the team for more thorough analysis, if necessary.

Attends pre-construction meetings; reviews and approves construction traffic control plans submitted by outside contractors and developers, and recommends changes. Occasionally assists other city divisions and private contractors with field layouts of signing and striping plans.

Measures, counts, and makes calculations, issues and completes detailed written work orders in a clear and precise manner to ensure that the final product conforms to professional or industry standards.

Maintains the City Barricade Management System by entering all pertinent data into the database and updating entries by checking with the field inspectors.

Performs other related duties as assigned.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

Principals, practices, and methods used in civil and traffic engineering, including; law, symbols, terminology, traffic data collection techniques and statistical survey procedures.

Ability to:

Learn and utilize current traffic engineering procedures. Read and interpret maps and plans.

Prepare and present oral and written analytical reports, write detailed work orders, effectively communicate verbally and in writing; effectively interact with co-workers, supervisors, and the potentially upset public.

Lift, carry, and install traffic counting equipment weighing approximately 15lbs, bend and stoop in vehicle travel lanes and roadway shoulders to install traffic counters and pneumatic road tubes; physical agility to move in and out of traffic lanes, and tolerate potentially extreme outdoor temperatures and weather conditions.

Use a sledgehammer to install road tube anchors.

Perform preventative maintenance on equipment either directly or through contact with appropriate vendors or suppliers.

Interpret, comprehend, and make inferences from written reference material such as the Manual on Uniform Traffic Control Devices, Scottsdale Design Standards and Policies Manual, City of Phoenix Barricade Manual, Title 28 of the Arizona Revised Statutes, and other pertinent references.

Operate a computer and other standard office equipment using continuous and repetitive are, hand, and eye coordination.

Education & Experience

Any combination of education and experience equivalent to three years of paraprofessional traffic technician experience. Must possess a valid Arizona driver's license without any major violations in the last 39 months.

FLSA Status: Non-exempt

HR Ordinance Status: Classified